

REMARKS

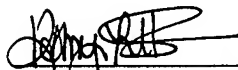
This is meant to be a complete response to the Office Action dated April 16, 2007. In the Office Action, the Examiner stated that restriction to one of the following inventions was required under 35 U.S.C. 121:

- I. Claim 8, drawn to methods for producing a heparin polymer using dual action heparin synthase, classified in class 435, subclass 101;
- II. Claims 14-18 (in part, SEQ ID NOs: 2, 4), drawn to methods for producing a polymer using a single action glycosyltransferase, classified in class 435, subclass 101; and
- III. Claims 14-18 (in part, SEQ ID NOs: 24, 26), drawn to methods for producing a polymer using a single action glycosyltransferase, classified in class 435, subclass 101.

In response to the restriction requirement, Applicant elects Invention I, and claim 8 readable thereon. Claims 14-18 have been canceled herein. In addition, new claims 19-23 have been added herein, and such claims also read on Invention I.

Should the Examiner have any questions regarding this Amendment, or the Remarks contained therein, Applicant's representative would welcome the opportunity to discuss the same with the Examiner.

Respectfully submitted,



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